

REMARKS/ARGUMENTS

Claims 1-11 are presently pending in this application. The specification is objected to, and each of claims 1-11 are substantively rejected. A Preliminary Amendment was filed via facsimile on August 12, 2003. In a telephone conference between the Examiner and the undersigned on June 21, 2004, it was determined that the Preliminary Amendment has not yet been matched with to file. To expedite prosecution, Applicant submits herewith a copy of that Preliminary Amendment along with an "Auto-Reply Facsimile Transmission" sheet, evidencing successful transmission to the U.S. Patent and Trademark Office. Claims 1, 5, 6, 7, 8, and 10 are currently amended to address possible antecedent basis issues.

Objection to the Specification

The disclosure was objected to because a Brief Description of the Drawing is absent. Applicant has amended the Specification to include a Brief Description of the Drawings. Withdrawal of this objection is respectfully requested.

Rejection Under 35 U.S.C. §112

Claims 1-11 were rejected under 35 U.S.C. §112, second paragraph, as allegedly failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. The Office Action alleges that the relationship between the claimed process steps to the flow chart in the drawing is unclear, and requests explanation of where the claimed steps are located in the flow chart. The Office Action also alleges that recitation of "precipitation of metal" in claim 3 is unclear.

Flow Chart

According to MPEP 2174, if a description or the enabling disclosure of a specification is not commensurate in scope with the subject matter encompassed by a claim, that fact alone does not render the claim imprecise or indefinite or otherwise not in compliance with 35 U.S.C. 112, second paragraph; rather, the claim is based on an insufficient disclosure (35 U.S.C. 112, first paragraph) and should be rejected on that ground.

For the purposes of expediting prosecution, however, the issue of whether the claims are supported by a sufficient disclosure is addressed as follows. It is well established that an enabling disclosure is not limited to the drawings; claims can find support in the specification. Elements of presently pending claim 1 can find support in the specification as follows.

See, for example, page 3, lines 4-10.

Thus, according to the present invention, there is now provided a hydrometallurgical process for producing metal-containing sulfide ores and concentrates, comprising reacting said metal-containing sulfide with concentrated sulfuric acid at a temperature of between about 300°C and 400°C in the presence of oxygen to produce a solid metal sulfate product and a gaseous product which is primarily SO₃, wherein said metal is selected from the group consisting of iron, copper, zinc, nickel, cobalt and manganese.

See also the paragraph bridging pages 5 and 6, referring to Example 1.

A sample of sulfide waste was milled in a ball mill to a size -75 micron -100%, then it was mixed at room temperature with concentrated sulfuric acid in a ratio 1:0.94 by weight. Mixing was made during 30 min., then the mixture obtained was loaded to a tube furnace, where the sulfatization process occurred at 338°C. Air was blown during the sulfatization process. The amount of air required was 1900 l/1 kg of sulfide waste, that is 200% of the amount theoretically required according to reaction (7). Sulfatization time is 2 hours. Gas SO₃ escaping at sulfatization is forwarded to scrubbers for precipitations I, II or III.

It is respectfully submitted that the presently pending claims find support in the specification. Illustrative representations of claim elements can also be found in Fig. 1, toward the top of the figure. For example, sulfuric acid can be represented as the "H₂SO₄," the sulfidic materials can be represented as the "sulfide waste," and the reaction between the two can be represented by the "mixing" and the "sulfatization." SO₃ can be represented by the SO₃.

Claim 3

The Preliminary Amendment of August 12, 2003 amended claim 3 to recite "metallic sulfates" instead of "metal" thus mooting this rejection. Withdrawal of this rejection is respectfully requested.

As an informal matter, it is noted that the instant application names a sole inventor, and not joint inventors, as suggested by the Office Action on page 3.

First Rejection Under 35 U.S.C. §103

Claims 1, 2, 5, and 7 were rejected under 35 U.S.C. §103(a) as allegedly obvious in light of U.S. Patent No. 4,003,740 to Huggins et al. (“Huggins”). This rejection is respectfully traversed.

According to MPEP 2142, establishment of a *prima facie* case of obviousness requires, among other things, that the cited reference, or an obvious modification thereof, must teach or suggest all the claim limitations. Applicant respectfully submits that the Office Action has not met either of these requirements.

Briefly, presently pending claim 1 is drawn to a method that includes, *inter alia*, reacting metal-containing sulphidic materials with concentrated sulfuric acid in the presence of oxygen to produce a solid metal sulfate product

Huggins is cited as teaching a process of forming copper sulfate from ore using concentrated sulfuric acid. The Action acknowledges that Huggins fails to explicitly disclose reacting sulfidic materials in the presence of oxygen, but asserts that it would have been obvious to the artisan to expect oxygen to be present during the reaction. Although it is not clear whether this is an inherency rejection, an obviousness rejection, or both, it is submitted that the cited reference renders the presently pending claims neither inherently anticipated nor obvious.

Huggins describes the liberation of oxygen during a “roasting” step, wherein sulfate is heated to produce a roasted solid. See Huggins at col. 3, lines 41-57, col. 4, lines 37-49, and claim 1, step (f). However, this roasting step is reported as occurring *subsequent* to the step where sulfidic residual material is treated with sulfuric acid and heat to form the sulfate. See Huggins at col. 4, lines 29-36 and claim 1, step (c). Thus, even assuming the proposed modification of Huggins, this reference still fails to disclose a method that includes reacting metal-containing sulphidic materials with concentrated sulfuric acid in the presence of oxygen to produce a solid metal sulfate product, as recited in presently pending claim 1.

Applicant submits, consequently, that a *prima facie* case of obviousness has not been made with respect to claim 1. Claims 2-11 depend from, either directly or indirectly, claim 1. Applicant submits that because a *prima facie* case of obviousness has not been established against claim 1, obviousness does not apply to claims 2-11. Withdrawal of this rejection is respectfully requested.

Second Rejection Under 35 U.S.C. §103

Claims 1-11 were rejected under 35 U.S.C. §103(a) as allegedly obvious in light of U.S. Patent No. 3,860,696 to McGauley et al. (“McGauley”). This rejection is respectfully traversed.

As noted above, presently pending claim 1 is drawn to a method that includes, *inter alia*,

reacting metal-containing sulphidic materials with concentrated sulfuric acid in the presence of oxygen to produce a solid metal sulfate product

McGauley is cited as teaching the production of iron sulfate from iron sulfide mineral feed. Yet McGauley fails to teach or suggest reacting metal-containing sulphidic materials with concentrated sulfuric acid in the presence of oxygen, as presently claimed. And there is no suggestion that such a modification of McGauley would be obvious. What is more, as discussed above, Huggins fails to teach these presently claimed elements, and therefore fails to remedy this deficiency of McGauley. Because McGauley, either alone or in combination with Huggins, fails to teach each and every element of presently pending claim 1, withdrawal of this rejection is respectfully requested.

Claims 2-11 depend from, either directly or indirectly, claim 1. Applicant submits that because a *prima facie* case of obviousness has not been established against claim 1, obviousness does not apply to claims 2-11. Withdrawal of this rejection is respectfully requested.

Appl. No. 09/830,830
Amdt. dated June 28, 2004
Reply to Office Action of February 27, 2004

PATENT

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,



Nathan S. Cassell
Reg. No. 42,396

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Attachments

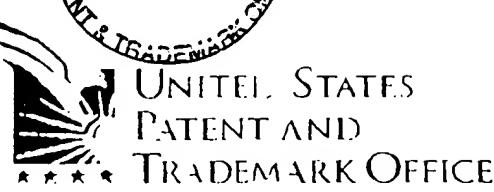
- Preliminary Amendment of August 12, 2003
- including
 - Transmittal Form
 - Facsimile Communication Result Report, and
 - USPTO Auto-Reply Facsimile Transmittal

NSC:sr
60241252 v1

TO:Auto-reply fax to 16503262422 COMPANY:



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Application Number	09/830,830
Filing Date	April 30, 2001
First Named Inventor	Flax, Solomon
Art Unit	1742
Examiner Name	Lewis Baltimore, K.L.

6

Attorney Docket Number

082845-000000US

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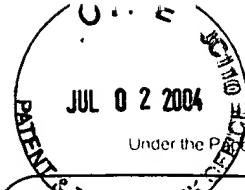
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Townsend and Townsend and Crew LLP Nathan S. Cassell	
Signature		
Date	August 12, 2003	

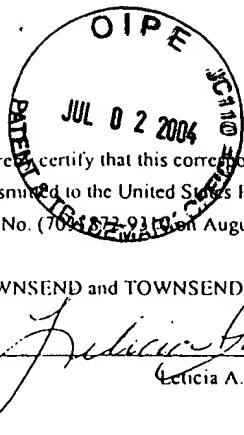
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Typed or printed name	Leticia A. Hernandez	
Signature		Date
		August 12, 2003

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TOWNSEND and TOWNSEND and CREW LLP

By:

Leticia A. Hernandez

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Solomon Flax

Application No.: 09/830,830

Filed: April 30, 2001

For: PROCESS FOR PRODUCING
METAL-CONTAINING SULFIDE
ORES

Customer No.: 20350

Confirmation No.:

Examiner: Lewis Baltimore, K.L.

Technology Center/Art Unit: 1742

PRELIMINARY AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Prior to examination of the above-referenced application, please enter the following amendments and remarks:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 4 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (currently amended) A hydrometallurgical process for treating [producing] metal-containing sulfide ores and concentrates, comprising reacting said metal-containing sulphidic materials [sulfide] with concentrated sulfuric acid at a temperature of between about 300°C and 400°C in the presence of oxygen to produce a solid metal sulfate product and a gaseous product which is primarily SO₃, wherein said metal is selected from the group consisting of iron, copper, zinc, nickel, cobalt and manganese.

2. (original) A process according to claim 1, wherein said metal sulfate product is then leached with a dilute solution of sulfuric acid, having a concentration of between 5% and 35% to extract metal values therefrom and to form a metal-containing solution.

3. (currently amended) A process according to claim 2, wherein said SO₃ gaseous product formed from said reaction is subsequently combined with said metal-containing solution in stages to raise the concentration of sulfuric acid in said solution to about 35% to 50% and to effect the stage-wise precipitation of metallic sulphates [metal] from said solution.

4. (currently amended) A process according to claim 1 [4], wherein the amount of sulfuric acid upon mixing with one weight portion of sulfide ore is \geq 0.94 weight portions of 98% sulfuric acid.

5. (original) A process according to claim 1, wherein the sulfatization process is carried out at a temperature of between 330°C and 350°C.

6. (currently amended) A process according to claim 1, wherein the sulfatization process is carried out in the presence of [at constant oxidation with] oxygen from the air, its amount being \geq 150% of the stoichiometrically required amount to convert the sulphide content of the starting material to SO_3 .

7. (original) A process according to claim 1, wherein leaching of the sulfatized product is carried out in solution of sulfuric acid, having a concentration of about 15% to 25%.

8. (original) A process according to claim 3, wherein separation of metal sulfate from the solution was made by its precipitation in sulfuric acid solutions of 40% 45% H_2SO_4 .

9. (original) A process according to claim 8, wherein a high concentration of sulfuric acid is achieved by saturation of the solution with gas SO_3 at room temperature.

10. (original) A process according to claim 9, wherein purification of sulfuric acid from the admixtures aimed at production of the acid ready for sale was performed by saturation with gas SO_3 up to a concentration of sulfuric acid of 98.3%.

11. (original) A process according to claim 1, wherein said metal is iron.

REMARKS/ARGUMENTS

Claims 1-11 remain in this application. Claims 1, 3, 4, and 6 have been amended.

At the time of filing the present application, Applicant included a copy of a letter, dated April 9, 2001, addressed to the International Bureau of WIPO. This letter was originally submitted to WIPO in connection with an Article 19 amendment to the claims of the PCT application. Due to a clerical oversight, the amended claims were not included in the application documents of the present application.

This Preliminary Amendment serves to clarify that the pending claims in the instant US National Stage application are to conform with those as provided in the PCT Article 19 Amendment.

As stated in the letter of April 9, 2001, the claims are amended for the following reasons.

Claim 1 has been amended to clarify that the metal containing sulfide ores and concentrates are "treated" and that it is said metal containing sulfide ores and concentrates, i.e., the metal containing sulphidic materials, which are reacted.

Claim 3 has been amended to indicate, as seen in the examples, that the preferred embodiment is a stage-wise process and to clarify the precipitation of metallic sulphates from the solution.

The dependency of claim 4 has been corrected.

Claim 6 has been amended to more precisely describe the claimed subject matter.

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Appl. No. 09/830,830
Ammdt. dated August 12, 2003
Preliminary Amendment

PATENT

Respectfully submitted,



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